



**National
Aerospace
Laboratories**

Class **Restricted**

No. of Copies **7**

Title ***Preliminary Studies of Electromagnetic Rain Loss for DWR Radome***

Author/s **Vidya P., R.M. Jha**

Division **ALD**

NAL Project No. **A-0-123**

Document No. **PD AL 9811**

Date of issue **Sept. 1998**

Contents **11** *Pages* **2** *Figures* **3** *Tables* **3** *References*

External Participation **ISTRAC**

Sponsor **x**

Approval **Head, ALD**

Signature **11/9/98**

Remarks **x**

Keywords **Radomes, EM Analysis of Radome, EM Propagation,
EM Rain Loss for Radomes**

Abstract

The effects of thin layers of water on the radome surface due to rainfall have been studied. Study is conducted to determine the electromagnetic losses due to rain falling on a radome enclosing a large parabolic reflecting antenna. The losses are determined to find to what extent the system performance is impaired while operating in the microwave region.